

HYDROGEN-ABSORBING ALLOY AND
HYDROGEN-ABSORBING ALLOY ELECTRODE

5

ABSTRACT OF THE DISCLOSURE

10 To provide a hydrogen absorbing alloy having a BCC
(body-centered cubic structure) as a crystal structure,
and particularly a hydrogen-absorbing alloy for a nickel-
hydride cell having excellent discharge capacity and
durability (cycle characteristics), said hydrogen-
15 absorbing alloy having a composition expressed by the
general formula $Ti(100-a-b-c-d)Cr_aV_bNi_cX_d$, where X is at
least one member selected from the group consisting of Y
(yttrium), lanthanoids, Pd and Pt, and each of a, b, c and
d is represented, in terms of at%, by the relations $8 \leq a$
 ≤ 50 , $30 < b \leq 60$, $5 \leq c \leq 15$, $2 \leq d \leq 10$ and $40 \leq a + b +$
20 $c + d \leq 90$, wherein the crystal structure of a principal
phase is a body-centered cubic structure, and further, the
alloy contains at least one of Mo and W in place of V and
at least one member selected from the group consisting of
Y (yttrium), lanthanoids, Pd and Pt, and its crystal
25 structure is converted to the body-centered cubic
structure by heat-treatment.